

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A method of allocating packet mode resources in a mobile radio system, said method comprising:

a mobile station sending to the network a packet mode resource request,
said mobile station ~~uses~~using, in accordance with its requirements of ~~said mobile station~~,
wherein at least one of different types of packet mode resource requests corresponding to
different transfer modes that it supports,

for the requirements of signaling data transfer in ~~the~~an uplink direction, said signaling
~~being liable to generate~~ generating an allocation of packet mode resources in ~~the~~a downlink
direction for user data transfer, said mobile station ~~uses~~using a type of packet mode resource
request corresponding to a transfer mode best suited to the requirements of said user data
transfer.

2. (currently amended): A method of allocating packet mode resources in a mobile radio system, said method comprising:

a mobile station ~~can~~ sending to the network a packet mode resource request,
said mobile station ~~uses~~using, in accordance with its requirements, one of different types
of packet mode resource requests, corresponding to different transfer modes that it supports,

for the requirements of signaling data transfer, said mobile station ~~uses~~using a type of packet mode resource request corresponding to a transfer mode best suited to the requirements of a user data transfer, including cause data specifying signaling data transfer requirements.

3. (original): The method claimed in claim 1 wherein different transfer modes supported correspond to different bit rates available.

4. (original): The method claimed in claim 3 wherein different bit rates available correspond to different modulation schemes available.

5. (original): The method claimed in claim 1 wherein said different transfer modes include a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

6. (original): The method claimed in claim 1 wherein one transfer mode best suited to the requirements of user data transfer corresponds to a transfer mode authorizing the highest bit rate.

7. (original): The method claimed in claim 1 wherein one transfer mode best suited to the requirements of user data transfer corresponds to the Enhanced General Packet Radio Service (EGPRS) mode.

8. (original): The method claimed in claim 1 wherein said signaling data transfer requirements include requirements for transfer of signaling messages in accordance with a mobility management protocol.

9. (original): The method claimed in claim 8 wherein said signaling messages include a cell update message sent in the event of cell reselection during a current user data transfer.

10. (original): The method claimed in claim 8 wherein said signaling messages include a paging response message in packet mode prior to a transfer of user data in the downlink direction.

11. (original): The method claimed in claim 1 wherein said user data transfer includes a transfer of data in accordance with the Transmission Control Protocol (TCP).

12. (original): The method claimed in claim 1 wherein a message used to transmit a type of packet mode resource request that corresponds to a transfer mode best suited to the requirements of a user data transfer is the EGPRS PACKET CHANNEL REQUEST message.

13. (previously presented): The method claimed in claim 12 wherein said EGPRS PACKET CHANNEL REQUEST message includes cause data specifying signaling data transfer requirements.

14. (currently amended): A mobile station comprising:
means for sending a packet mode resource request to the network
means for using, in accordance with its requirements, one of different types of packet mode resource requests corresponding to different transfer modes that it supports,
means for using, for the requirements of signaling data transfer in thean uplink direction, said signaling ~~being liable to generate~~ generating an allocation of packet mode resources in ~~the~~a downlink direction for user data transfer, a type of packet mode resource request corresponding to a transfer mode best suited to the requirements of said user data transfer.

15. (currently amended): A mobile radio network equipment comprising:

means for receiving a packet mode resource request from a mobile station;
means for receiving from a mobile station one of different types of packet mode resource requests corresponding to different transfer modes supported by said mobile station, said one of different packet mode resource requests being used by said mobile station in accordance with its requirements,

means for receiving from a mobile station a packet mode resource request used by said mobile station, for the requirements of signaling data transfer in ~~the~~an uplink direction, said signaling ~~being liable to generate~~ generating an allocation of packet mode resources in ~~the~~a downlink direction for user data transfer, said packet mode resource request corresponding to a transfer mode best suited to the requirements of said user data transfer.

16. (previously presented): A mobile station comprising:

means for sending a packet mode resource request to the network,
means for using, in accordance with its requirements, one of different types of packet mode resource requests corresponding to different transfer modes that it supports,
means for using, for the requirements of signaling data transfer, a type of packet mode resource request corresponding to a transfer mode best suited to the requirements of a user data transfer, including cause data specifying signaling data transfer requirements.

17. (previously presented): A mobile radio network equipment comprising:

means for receiving a packet mode resource request from a mobile station
means for receiving from a mobile station one of different types of packet mode resource requests corresponding to different transfer modes supported by said mobile station, said one of

different packet mode resource requests being used by said mobile station in accordance with its requirements,

means for receiving from a mobile station a packet mode resource request used by said mobile station, for the requirements of signaling data transfer, said packet mode resource request corresponding to a transfer mode best suited to the requirements of said user data transfer, including cause data specifying signaling data transfer requirements.

18. (previously presented): The mobile station claimed in claim 16 wherein different transfer modes supported correspond to different bit rates available.

19. (previously presented): The mobile station claimed in claim 18 wherein different bit rates available correspond to different modulation schemes available.

20. (previously presented): The mobile station claimed in claim 16 wherein said different transfer modes include a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

21. (previously presented): The mobile station claimed in claim 16 wherein one transfer mode best suited to the requirements of user data transfer corresponds to a transfer mode authorizing the highest bit rate.

22. (previously presented): The mobile station claimed in claim 16 wherein one transfer mode best suited to the requirements of user data transfer corresponds to an Enhanced General Packet Radio Service (EGPRS) mode.

23. (previously presented): The mobile station claimed in claim 16 wherein said signaling data transfer requirements include requirements for transfer of signaling messages in accordance with a mobility management protocol.

24. (previously presented): The mobile station claimed in claim 16 wherein said signaling messages include a cell update message sent in the event of cell reselection during a current user data transfer.

25. (previously presented): The mobile station claimed in claim 16 wherein said signaling messages include a paging response message in packet mode prior to a transfer of user data in the downlink direction.

26. (previously presented): The mobile station claimed in claim 16 wherein said user data transfer includes a transfer of data in accordance with the Transmission Control Protocol (TCP).

27. (previously presented): The mobile station claimed in claim 16 wherein a message used to transmit a type of packet mode resource request that corresponds to a transfer mode best suited to the requirements of a user data transfer is an Enhanced General Packet Radio Service (EGPRS) PACKET CHANNEL REQUEST message.

28. (previously presented): The mobile station claimed in claim 16 wherein an Enhanced General Packet Radio Service (EGPRS) PACKET CHANNEL REQUEST message includes cause data specifying signaling data transfer requirements.

29. (previously presented): The mobile radio network equipment claimed in claim 17, wherein different transfer modes supported correspond to different bit rates available.

30. (previously presented): The mobile radio network equipment claimed in claim 18, wherein different bit rates available correspond to different modulation schemes available.

31. (previously presented): The mobile radio network equipment claimed in claim 17, wherein said different transfer modes include a General Packet Radio Service (GPRS) mode and an Enhanced General Packet Radio Service (EGPRS) mode.

32. (previously presented): The mobile radio network equipment claimed in claim 17, wherein one transfer mode best suited to the requirements of user data transfer corresponds to a transfer mode authorizing the highest bit rate.

33. (previously presented): The mobile radio network equipment claimed in claim 17, wherein one transfer mode best suited to the requirements of user data transfer corresponds to an Enhanced General Packet Radio Service (EGPRS) mode.

34. (previously presented): The mobile radio network equipment claimed in claim 17, wherein said signaling data transfer requirements include requirements for transfer of signaling messages in accordance with a mobility management protocol.

35. (previously presented): The mobile radio network equipment claimed in claim 17, wherein said signaling messages include a cell update message sent in the event of cell reselection during a current user data transfer.

36. (previously presented): The mobile radio network equipment claimed in claim 17, wherein said signaling messages include a paging response message in packet mode prior to a transfer of user data in the downlink direction.

37. (previously presented): The mobile radio network equipment claimed in claim 17, wherein said user data transfer includes a transfer of data in accordance with a Transmission Control Protocol (TCP).

38. (previously presented): The mobile radio network equipment claimed in claim 17, wherein a message used to transmit a type of packet mode resource request that corresponds to a transfer mode best suited to the requirements of a user data transfer is an Enhanced General Packet Radio Service (EGPRS) PACKET CHANNEL REQUEST message.

39. (previously presented): The mobile radio network equipment claimed in claim 17, wherein an Enhanced General Packet Radio Service (EGPRS) PACKET CHANNEL REQUEST message includes cause data specifying signaling data transfer requirements.